



## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Masanobu OHSAKI *et al.*

Title: MISFIRE DETECTING APPARATUS FOR INTERNAL COMBUSTION ENGINE AND METHOD THEREOF

Appl. No.: 10/830,054

Filing Date: April 23, 2004

Examiner: Freddie KIRKLAND III

Art Unit: 2855

Confirmation 8724

Number:

**TERMINAL DISCLAIMER**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

Your Petitioners, HITACHI, LTD. and FUJI HEAVY INDUSTRIES LTD., having their principal places of business at 6-6, 1 chome, Marunouchi, Chiyoda-ku, Tokyo-to Japan and 7-2, Nishishinjuku 1-chome, Shinjuku-ku, Tokyo 160-8316 Japan, respectively, represent that they are the owners of the entire right, title, and interest in and to U.S. Patent Application Serial No. 10/830,054, filed April 23, 2004, by virtue of two Assignments the first of which was filed and recorded on April 23, 2004 on Reel/Frame 015262/0089, in the United States Patent and Trademark Office, a copy of which is attached hereto as APPENDIX A (*see p. 2 of the recordation*), and the second of which was filed and recorded on February 11, 2005 on Reel/Frame 016245/0106, in the United States Patent and Trademark Office, a copy of which is attached hereto as APPENDIX B (*see p. 2 of the recordation*).

Further, your Petitioners represent that they are the owner of U.S. Patent No. 6,864,103, filed 06/20/2006, issued 02/22/2005, by virtue of two Assignments the first of which was filed and recorded on April 23, 2004 on Reel/Frame 015261/0995, in the United States Patent and Trademark Office, a copy of which is attached hereto as APPENDIX C (*see p. 2 of the recordation*).  
*OP*

the recordation), and the second of which was filed and recorded on February 11, 2005 on Reel/Frame 016245/0106, in the United States Patent and Trademark Office, a copy of which is attached hereto as APPENDIX B (*see p. 3 of the recordation*).

Your Petitioners, HITACHI, LTD. and FUJI HEAVY INDUSTRIES LTD., hereby disclaim the terminal part of the term of any patent granted on U.S. Patent Application Serial No. 10/830,054 which would extend beyond the full statutory term, as shortened by any terminal disclaimer, of any patent granted on U.S. Patent Application Serial No. 10/830,065, and hereby agree that any patent so granted on U.S. Patent Application Serial No. 10/830,054 shall be enforceable only for and during such period that the legal title to any patent granted on U.S. Patent Application Serial No. 10/830,065 shall be the same as the legal title to any patent granted on U.S. Patent Application Serial No. 10/830,054, this agreement to run with any patent granted on U.S. Patent Application 10/830,054 and to be binding upon the grantee, its successors or assigns.

In making the above disclaimer, Petitioners do not disclaim any terminal part of any patent granted on U.S. Patent Application Serial No. 10/830,054, prior to the full statutory term of any patent granted on U.S. Patent Application Serial No. 10/830,065 as defined in 35 U.S.C. §§ 154-156 and 173, in the event that any patent granted on U.S. Patent Application Serial No. 10/830,065 expires for failure to pay a maintenance fee, is held unenforceable or is found invalid in a final judgment by a court of competent jurisdiction, is statutorily disclaimed in whole or terminally disclaimed under 37 C.F.R. § 1.321(a), has all claims canceled by a reexamination certificate or as a result of an interference proceeding, or is otherwise not deemed to provide the rights conveyed by 35 U.S.C. § 154, prior to the full statutory term of any patent granted on U.S. Patent Application Serial No. 10/830,065 as defined in 35 U.S.C. §§ 154-156 and 173, except for the separation of legal title stated above. Further, Petitioners do not disclaim any terminal part of a patent granted on U.S. Patent Application Serial No. 10/830,054 that would extend beyond the present termination of any patent granted on U.S. Patent Application Serial No. 10/830,065, in the event that such present term is extended by virtue of compliance with the conditions for term extension of any present or future patent term extension provisions of the patent law, including but not limited to 35 U.S.C. §§ 155, 155A or 156, and without waiving Petitioners' right to extend

the term of a patent granted on U.S. Patent Application 10/830,054 to the extent provided by law.

The undersigned, being the Attorney of Record for U.S. Patent Application 10/830,054, and duly authorized to act on behalf of Petitioners, certifies that he has reviewed the Assignments attached as APPENDICES A, B, and C, and to the best of his knowledge and belief, legal title to U.S. Patent Application Serial No. 10/830,054 and any patent granted on U.S. Patent Application Serial No. 10/830,065 rests with Petitioners, HITACHI, LTD. and FUJI HEAVY INDUSTRIES LTD. The undersigned declares that all statements made herein of his own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. § 1001, and that such willful false statements may jeopardize the validity of the above-identified application or any patent issuing therefrom.

Respectfully submitted,

June 19, 2006  
Date \_\_\_\_\_

By \_\_\_\_\_



Customer Number: 22428  
FOLEY & LARDNER LLP  
3000 K Street, N.W.  
Suite 500  
Washington, D.C. 20007-5143

William T. Ellis  
Registration No. 26,874  
Attorney for Applicant

Telephone: (202) 672-5300  
Facsimile: (202) 672-5399

THE COMMISSIONER IS HEREBY AUTHORIZED TO CHARGE ANY ADDITIONAL FEES WHICH MAY BE REQUIRED REGARDING THIS APPLICATION UNDER 37 C.F.R. §§ 1.16-1.17, OR CREDIT ANY OVERPAYMENT, TO DEPOSIT ACCOUNT NO. 19-0741. SHOULD NO PROPER PAYMENT BE ENCLOSED HEREWITH, AS BY A CHECK BEING IN THE WRONG AMOUNT, UNSIGNED, POST-DATED, OTHERWISE IMPROPER OR INFORMAL OR EVEN ENTIRELY MISSING, THE COMMISSIONER IS AUTHORIZED TO CHARGE THE UNPAID AMOUNT TO DEPOSIT ACCOUNT NO. 19-0741. IF ANY EXTENSIONS OF TIME ARE NEEDED FOR TIMELY ACCEPTANCE OF PAPERS SUBMITTED HEREWITH, APPLICANT HEREBY PETITIONS FOR SUCH EXTENSION UNDER 37 C.F.R. § 1.136 AND AUTHORIZES PAYMENT OF ANY SUCH EXTENSIONS FEES TO DEPOSIT ACCOUNT NO. 19-0741.



APPENDIX  
A

UNITED STATES PATENT AND TRADEMARK OFFICE

UNDER SECRETARY OF COMMERCE FOR INTELLECTUAL PROPERTY AND  
DIRECTOR OF THE UNITED STATES PATENT AND TRADEMARK OFFICE

OCTOBER 21, 2004

PTAS



\*102732873A\*

FOLEY & LARDNER LLP  
PAVAN K. AGARWAL  
WASHINGTON HARBOUR  
3000 K STREET, N.W., SUITE 500  
WASHINGTON, D.C. 20007-5143

UNITED STATES PATENT AND TRADEMARK OFFICE  
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

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REFERENCED BELOW.

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INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA  
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FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY  
CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723.  
PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE,  
ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY,  
SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 04/23/2004

REEL/FRAME: 015262/0089  
NUMBER OF PAGES: 2

BRIEF: ASSIGNMENT OF ASSIGNEE'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNEE:  
OHSAKI, MASANOBU

DOC DATE: 03/26/2004

ASSIGNEE:  
OZAKI, HISANORI

DOC DATE: 04/20/2004

ASSIGNEE:  
HITACHI UNISIA AUTOMOTIVE, LTD.  
1370, ONNA  
ATSUGI-SHI, KANAGAWA, JAPAN

ASSIGNEE:  
FUJI HEAVY INDUSTRIES LTD.  
7-2, NISHISHINJUKU 1-CHOME,  
SHINJUKU-KU  
TOKYO 160-8316, JAPAN

015262/0089 PAGE 2

SERIAL NUMBER: 10830054

FILING DATE: 04/23/2004

PATENT NUMBER:

ISSUE DATE:

TITLE: MISFIRE DETECTING APPARATUS FOR INTERNAL COMBUSTION ENGINE AND  
METHOD THEREOF

SHARON LATIMER, EXAMINER  
ASSIGNMENT DIVISION  
OFFICE OF PUBLIC RECORDS

04-29-2004

Atty. Dkt. No. O24536-0144

FORM PTO-1595 (modified)  
(Rev.6-93)

REC



U.S. DEPARTMENT OF COMMERCE

Patent and Trademark Office

HEET

102732873

To the Director of the United States Patent and Trademark Office: Please record the attached original documents or copies thereof.

1. Name of conveying party(ies):

Masanobu OHSAKI (03-26-2004)  
Hisanori OZAKI (04-20-2004)

2. Name and address of receiving party(ies):

HITACHI UNISIA AUTOMOTIVE, LTD.  
1370, Onna  
Atsugi-shi, Kanagawa Japan22278 U.S.PTO  
10/830054  
042304

Additional conveying party(ies) NO

3. Nature of conveyance:

ASSIGNMENT

Execution Date:

See dates above

Additional name(s) &amp; address(es) attached? NO

4. Application number(s) or patent number(s):

101830054

If this is being filed together with a new application, the execution date of the application is:

March 26 and  
April 20, 2004

A. Patent Application Number(s):

B. Patent Number(s):

Additional numbers attached? NO

5. Name and address of party to whom correspondence concerning document should be mailed:

Pavan K. Agarwal  
FOLEY & LARDNER LLP  
Washington Harbour  
3000 K Street, N.W., Suite 500  
Washington, D.C. 20007-5143

6. Total number of applications/patents involved: 1

7. Total fee (37 C.F.R. § 3.41): \$40.00

 Check Enclosed

Charge to deposit account

8. Deposit account number: 19-0741

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9. Statement and signature:

*To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document. The Commissioner is hereby authorized to charge any additional recordation fees which may be required in this matter to the above-identified deposit account.*

Pavan K. Agarwal

Name of person signing

Signature

April 23, 2004

Date

Total number of pages including cover sheet, attachments, and document: 2

04/26/2004 SSITHIB1 00000103 10830054

02 FC:8021

40.00 OP

002.1188310.1

## ASSIGNMENT

For good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, each undersigned inventor has sold and assigned, and by these presents hereby sells and assigns, unto

name and address of assignee  
Hitachi Unisia Automotive, Ltd., 1370, Onna, Atsugi-shi, Kanagawa JAPAN and FUJI HEAVY INDUSTRIES LTD., 7-2, Nishishinjuku 1-chomé, Shinjuku-ku, TOKYO 160-8316 JAPAN

(hereinafter ASSIGNEE) all right, title and interest for the United States, its territories and possessions in and to his invention relating to

title of invention MISFIRE DETECTING APPARATUS FOR INTERNAL COMBUSTION ENGINE AND METHOD THEREOF

as set forth in his United States Patent Application

check one

- executed concurrently herewith  
 executed on \_\_\_\_\_  
 Serial No. \_\_\_\_\_ Filed \_\_\_\_\_

in and to said United States Patent Application including any and all divisions or continuations thereof and in and to any and all Letters Patent of the United States which may issue on any such application or for said invention, including any and all reissues or extensions thereof, to be held and enjoyed by said ASSIGNEE, its successors, legal representatives and assigns to the full end of the term or terms for which any and all such Letters Patent may be granted as fully and entirely as would have been held and enjoyed by the undersigned had this Assignment not been made;

Each of the undersigned hereby authorizes and requests the Commissioner of Patents and Trademarks to issue any and all such Letters Patent to said ASSIGNEE, its successors or assigns in accordance herewith;

Each of the undersigned warrants and covenants that he has the full and unencumbered right to sell and assign the interests herein sold and assigned and that he has not executed and will not execute any document or instrument in conflict herewith;

Each of the undersigned further covenants and agrees he will communicate to said ASSIGNEE, its successors, legal representatives or assigns all information known to him relating to said invention or patent application and that he will execute and deliver any papers, make all rightful oaths, testify in any legal proceedings and perform all other lawful acts deemed necessary or desirable by said ASSIGNEE, its successors, legal representatives or assigns to perfect title to said invention, to said application including divisions and continuations thereof and to any and all Letters Patent which may be granted therefor or thereon, including reissues or extensions, in said ASSIGNEE, its successors, or assigns or to assist said ASSIGNEE, its successors, legal representatives or assigns in obtaining, reissuing or enforcing Letters Patent of the United States for said invention;

Each of the undersigned hereby grants the firm of FOLEY & LARDNER the power to insert in this Assignment any further identification which may be necessary or desirable to comply with the rules of the U.S. Patent and Trademark Office for recordation of this Assignment.

## NAMES AND SIGNATURES OF INVENTORS

Name: Masanobu OHSAKI	Signature: <i>Masanobu Ozaki</i>	Date: 26/03/04
Name: Hisanori OZAKI	Signature: <i>Hisanori Ozaki</i>	Date: 20/08/08
Name:	Signature:	Date:
Name:	Signature:	Date:

## NAMES AND SIGNATURES OF WITNESSES

Name: Kaoru OSAKI	Signature: <i>Kaoru Osaki</i>	Date: 26/3/04
Name: Kaori HARA	Signature: <i>Kaori Hara</i>	Date: 20/4/04

Note: *Prima facie* evidence of execution may optionally be obtained by execution of this document before a U.S. Consul or before a local officer authorized to administer oaths whose authority is proved by a certificate from a U.S. Consul.



APPENDIX  
B

UNITED STATES PATENT AND TRADEMARK OFFICE

UNDER SECRETARY OF COMMERCE FOR INTELLECTUAL PROPERTY AND  
DIRECTOR OF THE UNITED STATES PATENT AND TRADEMARK OFFICE

JULY 12, 2005

PTAS



\*102943419A\*

PAVAN K. AGARWAL  
FOLEY & LARDNER LLP  
WASHINGTON HARBOUR  
3000 K STREET, N.W., SUITE 500  
WASHINGTON, D.C. 20007-5143

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PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE,  
MAIL STOP: ASSIGNMENT SERVICES DIVISION, P.O. BOX 1450, ALEXANDRIA, VA 22313.

RECORDATION DATE: 02/11/2005

REEL/FRAME: 016245/0106

NUMBER OF PAGES: 6

BRIEF: MERGER (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

HITACHI UNISIA AUTOMOTIVE, LTD.

DOC DATE: 10/01/2004

ASSIGNEE:

HITACHI, LTD.  
6-6, 1 CHOME, MARUNOUCHI  
CHIYODA-KU, TOKYO-TO, JAPAN

SERIAL NUMBER: 09908914

FILING DATE: 07/20/2001

PATENT NUMBER:

ISSUE DATE:

TITLE: ENGINE FUEL INJECTION VALVE AND MANUFACTURING METHOD FOR NOZZLE  
PLATE USED FOR THE SAME INJECTION VALVE

SERIAL NUMBER: 10186743

FILING DATE: 07/02/2002

PATENT NUMBER:

ISSUE DATE:

TITLE: ANTI-SKID BRAKE CONTROL

SERIAL NUMBER: 10201199 FILING DATE: 07/24/2002  
PATENT NUMBER: ISSUE DATE:  
TITLE: APPARATUS AND METHOD FOR CONTROLLING AN INTERNAL COMBUSTION ENGINE

SERIAL NUMBER: 10743469 FILING DATE: 12/23/2003  
PATENT NUMBER: ISSUE DATE:  
TITLE: VISCOUS FLUID COUPLING WITH DRAGGING ROTATION REDUCTION ARRANGEMENT

SERIAL NUMBER: 10320390 FILING DATE: 12/17/2002  
PATENT NUMBER: ISSUE DATE:  
TITLE: SYSTEM FOR ESTIMATING BRAKE-FLUID PRESSURE

SERIAL NUMBER: 10345284 FILING DATE: 01/16/2003  
PATENT NUMBER: ISSUE DATE:  
TITLE: BRAKE CONTROL APPARATUS AND METHOD

SERIAL NUMBER: 10403010 FILING DATE: 04/01/2003  
PATENT NUMBER: 6913105 ISSUE DATE: 07/05/2005  
TITLE: SHOCK-ABSORBING MECHANISM FOR POWER-TRANSMISSION DEVICE

SERIAL NUMBER: 10618707 FILING DATE: 07/15/2003  
PATENT NUMBER: 6874359 ISSUE DATE: 04/05/2005  
TITLE: CONTROL APPARATUS AND CONTROL METHOD OF ENGINE

SERIAL NUMBER: 10725493 FILING DATE: 12/03/2003  
PATENT NUMBER: ISSUE DATE:  
TITLE: VARIABLE VALVE CONTROL APPARATUS FOR INTERNAL COMBUSTION ENGINE AND  
METHOD THEREOF

SERIAL NUMBER: 10777161 FILING DATE: 02/13/2004  
PATENT NUMBER: ISSUE DATE:  
TITLE: UNIFORM COUPLING

SERIAL NUMBER: 10830054 FILING DATE: 04/23/2004  
PATENT NUMBER: ISSUE DATE:  
TITLE: MISFIRE DETECTING APPARATUS FOR INTERNAL COMBUSTION ENGINE AND  
METHOD THEREOF

SERIAL NUMBER: 10895369 FILING DATE: 07/21/2004  
PATENT NUMBER: ISSUE DATE:  
TITLE: EXHAUST COMPONENT CONCENTRATION DETECTING APPARATUS FOR INTERNAL  
COMBUSTION ENGINE AND HEATING METHOD OF EXHAUST COMPONENT  
CONCENTRATION DETECTOR

SERIAL NUMBER: 10854276 FILING DATE: 05/27/2004  
PATENT NUMBER: ISSUE DATE:  
TITLE: VALVE ACTUATION APPARATUS FOR INTERNAL COMBUSTION ENGINE

SERIAL NUMBER: 10948191 FILING DATE: 09/24/2004  
PATENT NUMBER: ISSUE DATE:  
TITLE: LIQUID PRESSURE CONTROL UNIT

SERIAL NUMBER: 10935399 FILING DATE: 09/08/2004  
PATENT NUMBER: ISSUE DATE:  
TITLE: FUEL INJECTION CONTROL APPARATUS FOR INTERNAL COMBUSTION ENGINE AND  
METHOD THEREOF, AND FUEL INJECTION VALVE

SERIAL NUMBER: 10252089 FILING DATE: 09/23/2002  
PATENT NUMBER: 6910451 ISSUE DATE: 06/28/2005  
TITLE: VALVE TIMING CONTROL SYSTEM AND METHOD OF PRODUCING VALVE TIMING  
CONTROL SYSTEM

SERIAL NUMBER: 10237083 FILING DATE: 09/09/2002  
PATENT NUMBER: ISSUE DATE:  
TITLE: A SPACER FOR MOUNTING A CHIP PACKAGE TO A SUBSTRATE□

SERIAL NUMBER: 10131595 FILING DATE: 04/25/2002  
PATENT NUMBER: ISSUE DATE:  
TITLE: BRAKE FLUID PRESSURE CONTROL UNIT FOR VEHICLE

SERIAL NUMBER: 10860150 FILING DATE: 06/04/2004  
PATENT NUMBER: ISSUE DATE:  
TITLE: METHOD AND APPARATUS FOR AN ANODIC TREATMENT

SERIAL NUMBER: 10305167 FILING DATE: 11/27/2002  
PATENT NUMBER: ISSUE DATE:  
TITLE: AIR-FUEL RATIO CONTROL APPARATUS OF INTERNAL COMBUSTION ENGINE AND  
METHOD THEREOF

SERIAL NUMBER: 10389766 FILING DATE: 03/18/2003  
PATENT NUMBER: 6886657 ISSUE DATE: 05/03/2005  
TITLE: POWER STEERING SYSTEM

SERIAL NUMBER: 10374720 FILING DATE: 02/27/2003  
PATENT NUMBER: ISSUE DATE:  
TITLE: PRODUCTION METHOD OF HIGH DENSITY IRON BASED FORGED PART

SERIAL NUMBER: 10627745 FILING DATE: 07/28/2003  
PATENT NUMBER: ISSUE DATE:  
TITLE: VARIABLE-VALVE-ACTUATION APPARATUS FOR INTERNAL COMBUSTION ENGINE

SERIAL NUMBER: 10730030 FILING DATE: 12/09/2003  
PATENT NUMBER: 6907775 ISSUE DATE: 06/21/2005  
TITLE: DIAGNOSIS APPARATUS AND METHOD OF FUEL PUMP FOR INTERNAL COMBUSTION  
ENGINE

SERIAL NUMBER: 10770547 FILING DATE: 02/04/2004  
PATENT NUMBER: ISSUE DATE:  
TITLE: INTAKE AIR AMOUNT DETECTING APPARATUS FOR ENGINE AND METHOD THEREOF

SERIAL NUMBER: 10830065 FILING DATE: 04/23/2004  
PATENT NUMBER: ISSUE DATE:  
TITLE: MISFIRE DETECTING APPARATUS FOR INTERNAL COMBUSTION ENGINE AND  
METHOD THEREOF

SERIAL NUMBER: 10895348 FILING DATE: 07/21/2004  
PATENT NUMBER:  
TITLE: AIR-FUEL RATIO CONTROL APPARATUS FOR INTERNAL COMBUSTION ENGINE AND METHOD THEREOF  
ISSUE DATE:

SERIAL NUMBER: 10920379 FILING DATE: 08/18/2004  
PATENT NUMBER:  
TITLE: VEHICLE ATTITUDE CONTROL SYSTEM  
ISSUE DATE:

SERIAL NUMBER: 10926354 FILING DATE: 08/26/2004  
PATENT NUMBER:  
TITLE: AIR PUMP FOR INTERNAL COMBUSTION ENGINE  
ISSUE DATE:

SERIAL NUMBER: 11041968 FILING DATE: 01/26/2005  
PATENT NUMBER:  
TITLE: JOINT STRUCTURE FOR POWER TRANSMITTING MEMBER AND METHOD FOR PRODUCING THE SAME  
ISSUE DATE:

SERIAL NUMBER: 10411248 FILING DATE: 04/11/2003  
PATENT NUMBER:  
TITLE: INHALATOR, A POWDER COMPOSITION AND A PROCESS FOR ADMINISTERING THE POWDER COMPOSITION USING INHALATORS  
ISSUE DATE:

SERIAL NUMBER: 10166170 FILING DATE: 06/11/2002  
PATENT NUMBER: 6863037 ISSUE DATE: 03/08/2005  
TITLE: CONTROL UNIT FOR VARIABLE VALVE TIMING MECHANISM

SERIAL NUMBER: 10127696 FILING DATE: 04/23/2002  
PATENT NUMBER:  
TITLE: BRAKE LIQUID PRESSURE CONTROL UNIT OF ON-VEHICLE DEVICE AND ITS MANUFACTURING METHOD  
ISSUE DATE:

SERIAL NUMBER: 10960575 FILING DATE: 10/08/2004  
PATENT NUMBER:  
TITLE: INHALANT MEDICATOR  
ISSUE DATE:

SERIAL NUMBER: 10294612 FILING DATE: 11/15/2002  
PATENT NUMBER:  
TITLE: POWER TRAIN  
ISSUE DATE:

SERIAL NUMBER: 10360809 FILING DATE: 02/10/2003  
PATENT NUMBER: 6865470 ISSUE DATE: 03/08/2005  
TITLE: TRACTION DISTRIBUTION CONTROL SYSTEM FOR FOUR-WHEEL DRIVE VEHICLE

SERIAL NUMBER: 10617785 FILING DATE: 07/14/2003  
PATENT NUMBER: 6863050 ISSUE DATE: 03/08/2005  
TITLE: APPARATUS AND METHOD FOR CONTROLLING INTAKE AIR AMOUNT OF INTERNAL COMBUSTION ENGINE

SERIAL NUMBER: 10651096 FILING DATE: 08/29/2003  
PATENT NUMBER:  
TITLE: BRAKE PRESSURE ESTIMATING APPARATUS AND METHOD  
ISSUE DATE:

SERIAL NUMBER: 10743498 FILING DATE: 12/23/2003  
PATENT NUMBER: ISSUE DATE:  
TITLE: CONSTANT SPEED RUNNING CONTROL APPARATUS FOR VEHICLE AND METHOD  
THEREOF

SERIAL NUMBER: 10795263 FILING DATE: 03/09/2004  
PATENT NUMBER: 6874456 ISSUE DATE: 04/05/2005  
TITLE: VALVE OPERATING APPARATUS OF INTERNAL COMBUSTION ENGINES

SERIAL NUMBER: 10812913 FILING DATE: 03/31/2004  
PATENT NUMBER: ISSUE DATE:  
TITLE: ELECTROMAGNETIC VALVE UNIT

SERIAL NUMBER: 10872529 FILING DATE: 06/22/2004  
PATENT NUMBER: ISSUE DATE:  
TITLE: FAIL-SAFE CONTROL APPARATUS FOR INTERNAL COMBUSTION ENGINE EQUIPPED  
WITH VARIABLE VALVE CHARACTERISTIC MECHANISM AND METHOD THEREOF

SERIAL NUMBER: 10874201 FILING DATE: 06/24/2004  
PATENT NUMBER: 6920852 ISSUE DATE: 07/26/2005  
TITLE: APPARATUS AND METHOD FOR CONTROLLING ENGINE VALVE OPENING IN  
INTERNAL COMBUSTION ENGINE

SERIAL NUMBER: 10926355 FILING DATE: 08/26/2004  
PATENT NUMBER: ISSUE DATE:  
TITLE: AIR TRANSFER APPARATUS AND CONTROL METHOD OF AIR TRANSFER APPARATUS

SERIAL NUMBER: 10851140 FILING DATE: 05/24/2004  
PATENT NUMBER: ISSUE DATE:  
TITLE: APPARATUS AND METHOD FOR CONTROLLING VARIABLE VALVE OPERATING  
MECHANISM

SERIAL NUMBER: 10210209 FILING DATE: 08/02/2002  
PATENT NUMBER: ISSUE DATE:  
TITLE: ANTISKID CONTROL SYSTEM FOR FOUR-WHEEL-DRIVE VEHICLE

SERIAL NUMBER: 10180133 FILING DATE: 06/27/2002  
PATENT NUMBER: 6905530 ISSUE DATE: 06/14/2005  
TITLE: METALLIC POWDER-MOLDED BODY, RE-COMPACTED BODY OF THE MOLDED BODY,  
SINTERED BODY PRODUCED FROM THE RE-COMPACTED BODY, AND PROCESSES  
FOR PRODUCTION THEREOF

SERIAL NUMBER: 10472392 FILING DATE: 09/22/2003  
PATENT NUMBER: 6854262 ISSUE DATE: 02/15/2005  
TITLE: AIR-FUEL RATIO CONTROL APPARATUS OF INTERNAL COMBUSTION ENGINE AND  
METHOD THEREOF

SERIAL NUMBER: 10290250 FILING DATE: 11/08/2002  
PATENT NUMBER: 6918385 ISSUE DATE: 07/19/2005  
TITLE: AIR-FUEL RATIO DETECTING APPARATUS OF ENGINE AND METHOD THEREOF

SERIAL NUMBER: 10360817 FILING DATE: 02/10/2003  
PATENT NUMBER: ISSUE DATE:  
TITLE: OIL FILTER UNIT WITH DRAIN VALVE DEVICE

SERIAL NUMBER: 10617723 FILING DATE: 07/14/2003  
PATENT NUMBER: ISSUE DATE:  
TITLE: APPARATUS AND METHOD FOR ESTIMATING RESIDUAL GAS AMOUNT OF INTERNAL COMBUSTION ENGINE, AND APPARATUS AND METHOD FOR CONTROLLING INTAKE AIR AMOUNT OF INTERNAL COMBUSTION ENGINE USING ESTIMATED RESIDUAL GAS AMOUNT

SERIAL NUMBER: 10618584 FILING DATE: 07/15/2003  
PATENT NUMBER: ISSUE DATE:  
TITLE: OIL FILTER

SERIAL NUMBER: 10730012 FILING DATE: 12/09/2003  
PATENT NUMBER: 6920851 ISSUE DATE: 07/26/2005  
TITLE: VARIABLE VALVE CONTROL APPARATUS FOR INTERNAL COMBUSTION ENGINE AND METHOD THEREOF

SERIAL NUMBER: 10796141 FILING DATE: 03/10/2004  
PATENT NUMBER: ISSUE DATE:  
TITLE: POWER STEERING SYSTEM

SERIAL NUMBER: 10832333 FILING DATE: 04/27/2004  
PATENT NUMBER: ISSUE DATE:  
TITLE: ELECTROMAGNETICALLY ACTUATED VALVE

SERIAL NUMBER: 10873139 FILING DATE: 06/23/2004  
PATENT NUMBER: ISSUE DATE:  
TITLE: FAIL-SAFE CONTROL APPARATUS FOR INTERNAL COMBUSTION ENGINE EQUIPPED WITH VARIABLE VALVE CHARACTERISTIC MECHANISMS AND METHOD THEREOF

SERIAL NUMBER: 10851139 FILING DATE: 05/24/2004  
PATENT NUMBER: ISSUE DATE:  
TITLE: LEAKAGE DIAGNOSIS APPARATUS FOR FUEL VAPOR PURGE SYSTEM AND METHOD THEREOF

SERIAL NUMBER: 10942815 FILING DATE: 09/17/2004  
PATENT NUMBER: ISSUE DATE:  
TITLE: DIAGNOSIS APPARATUS FOR AIR TRANSFER APPARATUS AND METHOD THEREOF

SERIAL NUMBER: 10765105 FILING DATE: 01/28/2004  
PATENT NUMBER: ISSUE DATE:  
TITLE: VALVE TIMING CONTROL DEVICE FOR INTERNAL COMBUSTION ENGINE

SERIAL NUMBER: 10843380 FILING DATE: 05/12/2004  
PATENT NUMBER: ISSUE DATE:  
TITLE: SUPPORT STRUCTURE AND METHOD FOR SUPPORTING A HYDRAULIC UNIT OF A BRAKE SYSTEM ON A VEHICLE BODY, AND HYDRAULIC UNIT ARRANGEMENT FOR A VEHICLE BRAKE SYSTEM

SERIAL NUMBER: 08629547 FILING DATE: 04/09/1996  
PATENT NUMBER: ISSUE DATE:  
TITLE: CRANKSHAFT ASSEMBLY FOR INTERNAL COMBUSTION ENGINE

SERIAL NUMBER: 10268688 FILING DATE: 10/11/2002  
PATENT NUMBER: 6851409 ISSUE DATE: 02/08/2005  
TITLE: APPARATUS AND METHOD FOR CONTROLLING INTAKE AIR AMOUNT OF INTERNAL COMBUSTION ENGINE

SERIAL NUMBER: 10329671 FILING DATE: 12/27/2002  
PATENT NUMBER: 6874472 ISSUE DATE: 04/05/2005  
TITLE: IGNITION TIMING CONTROL APPARATUS FOR INTERNAL COMBUSTION ENGINE AND METHOD THEREOF

SERIAL NUMBER: 10412285 FILING DATE: 04/14/2003  
PATENT NUMBER: ISSUE DATE:  
TITLE: VEHICLE BRAKE CONTROL SYSTEM

SERIAL NUMBER: 10400395 FILING DATE: 03/28/2003  
PATENT NUMBER: ISSUE DATE:  
TITLE: COUPLING MEMBER OF POWER TRANSMISSION APPARATUS

SERIAL NUMBER: 10760347 FILING DATE: 01/21/2004  
PATENT NUMBER: ISSUE DATE:  
TITLE: POWER STEERING SYSTEM

SERIAL NUMBER: 10739033 FILING DATE: 12/19/2003  
PATENT NUMBER: ISSUE DATE:  
TITLE: AIR-FUEL RATIO FEEDBACK CONTROL APPARATUS AND METHOD FOR INTERNAL COMBUSTION ENGINE

SERIAL NUMBER: 10897125 FILING DATE: 07/23/2004  
PATENT NUMBER: ISSUE DATE:  
TITLE: STEERING CONTROL SYSTEM

SERIAL NUMBER: 10899074 FILING DATE: 07/27/2004  
PATENT NUMBER: ISSUE DATE:  
TITLE: VALVE ACTUATION APPARATUS FOR INTERNAL COMBUSTION ENGINE AND METHOD OF ADJUSTING LIFT THEREOF

SERIAL NUMBER: 10898976 FILING DATE: 07/27/2004  
PATENT NUMBER: ISSUE DATE:  
TITLE: VALVE TIMING CONTROL SYSTEM FOR INTERNAL COMBUSTION ENGINE

SERIAL NUMBER: 10872474 FILING DATE: 06/22/2004  
PATENT NUMBER: ISSUE DATE:  
TITLE: CONTROL APPARATUS FOR VEHICLE AND METHOD THEREOF

SERIAL NUMBER: 10932046 FILING DATE: 09/02/2004  
PATENT NUMBER: ISSUE DATE:  
TITLE: AIR TRANSFER APPARATUS AND CONTROL METHOD OF AIR TRANSFER APPARATUS

SERIAL NUMBER: 10134489 FILING DATE: 04/30/2002  
PATENT NUMBER: 6880668 ISSUE DATE: 04/19/2005  
TITLE: POWER STEERING DEVICE

SERIAL NUMBER: 09985798 FILING DATE: 11/06/2001  
PATENT NUMBER: 6868812 ISSUE DATE: 03/22/2005  
TITLE: VALVE TIMING CONTROL SYSTEM FOR INTERNAL COMBUSTION ENGINE

SERIAL NUMBER: 10237932 FILING DATE: 09/10/2002  
PATENT NUMBER: ISSUE DATE:  
TITLE: JOINT STRUCTURE FOR POWER TRANSMITTING MEMBER AND METHOD FOR PRODUCING THE SAME

SERIAL NUMBER: 10303033 FILING DATE: 11/25/2002  
PATENT NUMBER: 6896083 ISSUE DATE: 05/24/2005  
TITLE: FOUR-WHEEL DRIVE CONTROL SYSTEM AND METHOD

SERIAL NUMBER: 10335926 FILING DATE: 01/03/2003  
PATENT NUMBER: 6860245 ISSUE DATE: 03/01/2005  
TITLE: CONTROL APPARATUS OF VARIABLE VALVE TIMING MECHANISM AND METHOD THEREOF

SERIAL NUMBER: 10420879 FILING DATE: 04/23/2003  
PATENT NUMBER: 6895912 ISSUE DATE: 05/24/2005  
TITLE: VARIABLE VALVE CONTROL APPARATUS FOR ENGINE AND METHOD THEREOF

SERIAL NUMBER: 10606122 FILING DATE: 06/26/2003  
PATENT NUMBER: ISSUE DATE:  
TITLE: APPARATUS FOR CONTROLLING FUEL INJECTION OF ENGINE AND METHOD THEREOF

SERIAL NUMBER: 10716532 FILING DATE: 11/20/2003  
PATENT NUMBER: ISSUE DATE:  
TITLE: VARIABLE VALVE CONTROL APPARATUS FOR INTERNAL COMBUSTION ENGINE AND METHOD THEREOF

SERIAL NUMBER: 10699880 FILING DATE: 11/04/2003  
PATENT NUMBER: ISSUE DATE:  
TITLE: VARIABLE VALVE CONTROL APPARATUS AND METHOD IN INTERNAL COMBUSTION ENGINE

SERIAL NUMBER: 10865849 FILING DATE: 06/14/2004  
PATENT NUMBER: ISSUE DATE:  
TITLE: LEAKAGE DIAGNOSIS APPARATUS FOR FUEL VAPOR PURGE SYSTEM AND METHOD THEREOF

SERIAL NUMBER: 10880577 FILING DATE: 07/01/2004  
PATENT NUMBER: ISSUE DATE:  
TITLE: AIR-FUEL RATIO CONTROL APPARATUS FOR INTERNAL COMBUSTION ENGINE AND METHOD THEREOF

SERIAL NUMBER: 10899073 FILING DATE: 07/27/2004  
PATENT NUMBER: 6920854 ISSUE DATE: 07/26/2005  
TITLE: VARIABLE VALVE ACTUATION APPARATUS FOR INTERNAL COMBUSTION ENGINE

SERIAL NUMBER: 10886045 FILING DATE: 07/08/2004  
PATENT NUMBER: ISSUE DATE:  
TITLE: CONTROL APPARATUS FOR VEHICLE AND METHOD THEREOF

SERIAL NUMBER: 10953383 FILING DATE: 09/30/2004  
PATENT NUMBER: ISSUE DATE:  
TITLE: APPARATUS AND METHOD FOR CONTROLLING VEHICLE

SERIAL NUMBER: 09959193 FILING DATE: 10/19/2001  
PATENT NUMBER: 6832585 ISSUE DATE: 12/21/2004  
TITLE: VALVE TIMING CONTROLLER OF INTERNAL COMBUSTION ENGINE

SERIAL NUMBER: 10045014 FILING DATE: 01/15/2002  
PATENT NUMBER: 6821408 ISSUE DATE: 11/23/2004  
TITLE: METHOD AND APPARATUS FOR AN ANODIC TREATMENT

SERIAL NUMBER: 10290356 FILING DATE: 11/08/2002  
PATENT NUMBER: 6848439 ISSUE DATE: 02/01/2005  
TITLE: AIR-FUEL RATIO CONTROL APPARATUS, AIR-FUEL RATIO DETECTING APPARATUS AND METHODS THEREOF FOR ENGINE

SERIAL NUMBER: 10347467 FILING DATE: 01/21/2003  
PATENT NUMBER: 6848890 ISSUE DATE: 02/01/2005  
TITLE: PUMP ASSEMBLY

SERIAL NUMBER: 10360805 FILING DATE: 02/10/2003  
PATENT NUMBER: 6843338 ISSUE DATE: 01/18/2005  
TITLE: TRACTION DISTRIBUTION CONTROL SYSTEM FOR FOUR-WHEEL DRIVE VEHICLE

SERIAL NUMBER: 10739271 FILING DATE: 12/19/2003  
PATENT NUMBER: 6843230 ISSUE DATE: 01/18/2005  
TITLE: CONTROL APPARATUS AND CONTROL METHOD OF INTERNAL COMBUSTION ENGINE

SERIAL NUMBER: 10736592 FILING DATE: 12/17/2003  
PATENT NUMBER: 6837200 ISSUE DATE: 01/04/2005  
TITLE: VALVE TIMING CONTROL SYSTEM FOR INTERNAL COMBUSTION ENGINE

SERIAL NUMBER: 10774661 FILING DATE: 02/10/2004  
PATENT NUMBER: 6835054 ISSUE DATE: 12/28/2004  
TITLE: OIL PUMP

ALLYSON PURNELL, EXAMINER  
ASSIGNMENT DIVISION  
OFFICE OF PUBLIC RECORDS

RECORD

02-17-2005



102943419

Atty. Dkt. No. 069765-0127

U.S. DEPARTMENT OF COMMERCE

PT

Patent and Trademark Office

To the Director of the United States Patent and Trademark Office: Please record the attached original documents or copies thereof.

## 1. Name of conveying party(ies):

HITACHI UNISIA AUTOMOTIVE, LTD.



## 2. Name and address of receiving party(ies):

HITACHI, LTD.  
6-6, 1 chome, Marunouchi  
Chiyoda-ku, Tokyo-to  
Japan

Additional conveying party(ies) NO

## 3. Nature of conveyance:

MERGER

## Execution Date:

October 1, 2004

Additional name(s) &amp; address(es) attached? NO

## 4. Application number(s) or patent number(s):

If this is being filed together with a new application, the execution date of the application is:

## A. Patent Application Number(s):

**86 Patent Applications**  
Serial Nos. listed on Pages 2 of this form.

## B. Patent Number(s):

6,832,585	6,821,408	6,848,439	6,848,890
6,843,338	6,843,230	6,837,200	6,835,054

Additional numbers attached? YES

## 5. Name and address of party to whom correspondence concerning document should be mailed:

Pavan K. Agarwal  
FOLEY & LARDNER LLP  
Washington Harbour  
3000 K Street, N.W., Suite 500  
Washington, D.C. 20007-5143

6. Total number of applications/patents involved: 94

7. Total fee (37 C.F.R. § 3.41): \$3,760.00

 Check Enclosed

Charge to deposit account

8. Deposit account number: 19-0741

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## 9. Statement and signature:

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document. The Commissioner is hereby authorized to charge any additional recordation fees which may be required in this matter to the above-identified deposit account.

Pavan K. Agarwal

February 11, 2005

Name of person signing

Signature

Date

Total number of pages including cover sheet, attachments, and document: 6

09/908,914	10/252,089	10/411,248	10/851,140	10/765,105	10/134,489
10/186,743	10/237,083	10/166,170	10/210,209	10/843,380	09/985,798
10/201,199	10/131,595	10/127,696	10/180,133	08/629,547	10/237,932
10/743,469	10/860,150	10/960,575	10/472,392	10/268,688	10/303,033
10/320,390	10/305,167	10/294,612	10/290,250	10/329,671	10/335,926
10/345,284	10/389,766	10/360,809	10/360,817	10/412,285	10/420,879
10/403,010	10/374,720	10/617,785	10/617,723	10/400,395	10/606,122
10/618,707	10/627,745	10/651,096	10/618,584	10/760,347	10/716,532
10/725,493	10/730,030	10/743,498	10/730,012	10/739,033	10/699,880
10/777,161	10/770,547	10/795,263	10/796,141	10/897,125	10/865,849
10/830,054	10/830,065	10/812,913	10/832,333	10/899,074	10/880,577
10/895,369	10/895,348	10/872,529	10/873,139	10/898,976	10/899,073
10/854,276	10/920,379	10/874,201	10/851,139	10/872,474	10/886,045
10/948,191	10/926,354	10/926,355	10/942,815	10/932,046	10/953,383
10/935,399	11/041,968				

## DECLARATION

I, Taro Kashima of Hitachi, Ltd. Automotive Systems, 1370 Onna Atsugi-shi, Kanagawa-ken Japan, do hereby declare that I am conversant with the English and Japanese language. I further declare that to the best of my knowledge and belief, the following is a true and correct translation made by me of the document in the Japanese language attached hereto.

Signed this 20th day of January, 2005.



Taro Kashima

Page 1	Trade Name	HITACHI, LTD.		
	Head Office	Non Available		
	6-6 1chome Marunouchi, Chiyoda-ku, Tokyo-to	Date of Change	September 27, 2004	
		Date of Registration		September 27, 2004
	The way of public announcement	Non Available		
	Items to obtain an information related to a balance sheet	Non Available		
		Non Available		
	Date of establishment of Company	February 1, 1934		
	Business Field	Non Available		
	Company Division	Non Available		
	Company Division	Non Available		
	TOKICO LTD., which locates in 6-3 1chome Fujimi, Kawasaki-ku, Kanagawa-shi, Kanagawa-ken and HITACHI UNISIA AUTOMOTIVE, LTD., which locates in 1370 Onna, Atsugi-shi, Kanagawa-ken were merged with HITACHI, LTD., which locates in 6-6 1chome Marunouchi, Chiyoda-ku, Tokyo-to. October 1, 2004 registered			
Page 2	Business Merger (Amalgamation)			
Page 3	Items related to Steering Committee	Non Available		
	This is to certify that the above is a part of items of the transcript that are recorded in a register and not closed.			
	January 18, 2005 Tokyo Legal Affairs Bureau Registrar; Seiichi Yoshioka [ Seal ]			

## 履歴事項一部証明書

東京都千代田区丸の内一丁目6番6号  
 株式会社日立製作所  
 会社法人等番号 0199-01-008844

商 号	株式会社日立製作所	
本 店	<u>東京都千代田区神田駿河台四丁目6番地</u>	
	東京都千代田区丸の内一丁目6番6号	平成16年 9月27日移転
		平成16年 9月27日登記
公告をする方法	東京都において発行する毎日新聞及び日本経済新聞に掲載してこれを行う	
貸借対照表に係る情報の提供を受けるために必要な事項	http://www.hitachi.co.jp/keisan/index.html	平成14年 5月23日設定
		平成14年 6月 4日登記
会社成立の年月日	大正9年2月1日	
会社分割	平成14年4月1日東京都港区西新橋二丁目15番12号日立ホーム・アンド・ライフ・ソリューション株式会社に分割	平成14年 4月 8日登記
	平成14年4月1日東京都江東区福住一丁目13番12号株式会社日立産機システムに分割	平成14年 4月15日登記
	平成14年10月1日東京都中央区八重洲二丁目1番1号株式会社日本エイーパワーシステムズに分割	平成14年10月 1日登記
	東京都小平市上水本町五丁目22番1号株式会社日立超エル・エス・アイ・システムズから分割	平成14年10月 1日登記
	平成14年10月1日千葉県茂原市早野3300番地株式会社日立ディスプレイスに分割	平成14年10月 2日登記
	平成14年10月1日福島県郡山市字船場向94番地株式会社日立コミュニケーションテクノロジーに分割	平成14年10月15日登記
	平成15年4月1日東京都千代田区丸の内二丁目4番1号株式会社ルネサステクノロジに分割	平成15年 4月 1日登記

整理番号 カ076143 \* 下線のあるものは抹消事項であることを示す。

東京都千代田区丸の内一丁目6番6号  
株式会社日立製作所  
会社法人等番号 0199-01-008844

	茨城県日立市幸町三丁目2番1号日立エンジニアリング株式会社及び茨城県日立市幸町三丁目2番2号株式会社日立エンジニアリングサービスから分割 平成15年 4月 1日登記
	平成15年4月1日神奈川県小田原市国府津2880番地株式会社日立グローバルストレージテクノロジーズに分割 平成15年 4月 17日登記
	平成16年4月1日東京都東大和市桜が丘二丁目229番地の1株式会社カシオ日立モバイルコミュニケーションズに分割 平成16年 4月 8日登記
	平成16年10月1日東京都品川区大崎一丁目6番3号日立オムロンターミナルソリューションズ株式会社に分割 平成16年 10月 5日登記
吸收合併	川崎市川崎区富士見一丁目6番3号トキコ株式会社及び神奈川県厚木市恩名1370番地株式会社日立ユニシアオートモティブを合併 平成16年 10月 1日登記
委員会等設置会社に関する事項	委員会等設置会社 平成15年 6月 25日設定 平成15年 7月 3日登記

これは登記簿に記録されている閉鎖されていない事項の一部であることを証明した書面である。  
(東京法務局管轄)

平成17年 1月 18日  
横浜地方法務局厚木支局  
登記官

鈴木英夫



整理番号 カ076143 \* 下線のあるものは抹消事項であることを示す。

2 / 2



# **APPENDIX C**

**UNITED STATES PATENT AND TRADEMARK OFFICE**

**UNDER SECRETARY OF COMMERCE FOR INTELLECTUAL PROPERTY AND  
DIRECTOR OF THE UNITED STATES PATENT AND TRADEMARK OFFICE**

OCTOBER 21, 2004

PTAS



\*102732850A\*

FOLEY & LARDNER LLP  
PAVAN K. AGARWAL  
WASHINGTON HARBOUR  
3000 K STREET, N.W., SUITE 500  
WASHINGTON, D.C. 20007-5143

UNITED STATES PATENT AND TRADEMARK OFFICE  
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF  
THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS  
AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER  
REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 04/23/2004

REEL/FRAME: 015261/0995  
NUMBER OF PAGES: 2

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).  
DOCKET NUMBER: 024536-0143

ASSIGNOR:  
KIYOMURA, AKIRA

DOC DATE: 03/31/2004

ASSIGNOR:  
OHSAKI, MASANOBU

DOC DATE: 03/31/2004

ASSIGNOR:  
OZAKI, HISANORI

DOC DATE: 04/20/2004

ASSIGNEE:  
HITACHI UNISIA AUTOMOTIVE, LTD  
1370, ONNA  
ATSUGI-SHI, KANAGAWA, JAPAN

ASSIGNEE:

FUJI HEAVY INDUSTRIES LTD.  
7-2, NISHIHINJUKU 1-CHOME,  
SHINJUKU-KU  
TOKYO 160-8316, JAPAN

SERIAL NUMBER: 10830065

FILING DATE: 04/23/2004

PATENT NUMBER:

ISSUE DATE:

TITLE: MISFIRE DETECTING APPARATUS FOR INTERNAL COMBUSTION ENGINE AND  
METHOD THEREOF

TONYA LEE, EXAMINER  
ASSIGNMENT DIVISION  
OFFICE OF PUBLIC RECORDS

FORM PTO-1595 (modified)  
(Rev 6-93)

RECOI



U.S. DEPARTMENT OF COMMERCE

Patent and Trademark Office

EET

102732850

To the Director of the United States Patent and Trademark Office: Please record the attached original documents or copies thereof.

## 1. Name of conveying party(ies):

Akira KIYOMURA (03-31-2004)  
 Masanobu OHSAKI (03-31-04)  
 Hisanori OZAKI (04-20-2004)

## 2. Name and address of receiving party(ies):

HITACHI UNISIA AUTOMOTIVE, LTD  
 1370, Onna  
 Atsugi-shi, Kanagawa Japan

22278 U.S. PTO  
10/830065

Additional conveying party(ies)

NO

## 3. Nature of conveyance:

ASSIGNMENT

Execution Date:

See dates above

Additional name(s) &amp; address(es) attached? NO

## 4. Application number(s) or patent number(s):

101830065

If this is being filed together with a new application, the execution date of the application is:

March 31 and  
April 20, 2004

A. Patent Application Number(s):

B. Patent Number(s):

Additional numbers attached? NO

## 5. Name and address of party to whom correspondence concerning document should be mailed:

Pavan K. Agarwal  
 FOLEY & LARDNER LLP  
 Washington Harbour  
 3000 K Street, N.W., Suite 500  
 Washington, D.C. 20007-5143

6. Total number of applications/patents involved: 1

7. Total fee (37 C.F.R. § 3.41): \$40.00

 Check Enclosed

Charge to deposit account

8. Deposit account number: 19-0741

DO NOT USE THIS SPACE

## 9. Statement and signature:

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document. The Commissioner is hereby authorized to charge any additional recordation fees which may be required in this matter to the above-identified deposit account.

Pavan K. Agarwal

April 23, 2004

Name of person signing

Signature

Date

04/26/2004 SSITHIB1 00000111 10830065

Total number of pages including cover sheet, attachments, and document: 2

01 FC:8021

40.00 DP

**ASSIGNMENT**

For good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, each undersigned inventor has sold and assigned, and by these presents hereby sells and assigns, unto

name and address of assignee Hitachi Unisia Automotive, Ltd., 1370, Onna, Atsugi-shi, Kanagawa JAPAN and FUJI HEAVY INDUSTRIES LTD., 7-2, Nishishinjuku 1-chome, Shinjuku-ku, TOKYO 160-8316 JAPAN  
 (hereinafter ASSIGNEE) all right, title and interest for the United States, its territories and possessions in and to his invention relating to

title of invention MISFIRE DETECTING APPARATUS FOR INTERNAL COMBUSTION ENGINE AND METHOD THEREOF

as set forth in his United States Patent Application

check one

- executed concurrently herewith  
 executed on \_\_\_\_\_  
 Serial No. \_\_\_\_\_ Filed \_\_\_\_\_

in and to said United States Patent Application including any and all divisions or continuations thereof and in and to any and all Letters Patent of the United States which may issue on any such application or for said invention, including any and all reissues or extensions thereof, to be held and enjoyed by said ASSIGNEE, its successors, legal representatives and assigns to the full end of the term or terms for which any and all such Letters Patent may be granted as fully and entirely as would have been held and enjoyed by the undersigned had this Assignment not been made;

Each of the undersigned hereby authorizes and requests the Commissioner of Patents and Trademarks to issue any and all such Letters Patent to said ASSIGNEE, its successors or assigns in accordance herewith;

Each of the undersigned warrants and covenants that he has the full and unencumbered right to sell and assign the interests herein sold and assigned and that he has not executed and will not execute any document or instrument in conflict herewith;

Each of the undersigned further covenants and agrees he will communicate to said ASSIGNEE, its successors, legal representatives or assigns all information known to him relating to said invention or patent application and that he will execute and deliver any papers, make all rightful oaths, testify in any legal proceedings and perform all other lawful acts deemed necessary or desirable by said ASSIGNEE, its successors, legal representatives or assigns to perfect title to said invention, to said application including divisions and continuations thereof and to any and all Letters Patent which may be granted therefor or thereon, including reissues or extensions, in said ASSIGNEE, its successors, or assigns or to assist said ASSIGNEE, its successors, legal representatives or assigns in obtaining, reissuing or enforcing Letters Patent of the United States for said invention;

Each of the undersigned hereby grants the firm of FOLEY & LARDNER the power to insert in this Assignment any further identification which may be necessary or desirable to comply with the rules of the U.S. Patent and Trademark Office for recordation of this Assignment.

**NAMES AND SIGNATURES OF INVENTORS**

Name: Akira KIYOMURA	Signature: Akira Kiyomura	Date: 03/31/04
Name: Masanobu OHSAKI	Signature: Masanobu Osaki	Date: 03/31/04
Name: Hisanori OZAKI	Signature: Hisanori Ozaki	Date: 20/04/04
Name:	Signature:	Date:

**NAMES AND SIGNATURES OF WITNESSES**

Name: Kaoru OSAKI	Signature: <i>Kaoru OSAKI</i>	Date: 3/31/04
Name: Kaori HARA	Signature: <i>Kaori HARA</i>	Date: 20/4/04

Note: *Prima facie* evidence of execution may optionally be obtained by execution of this document before a U.S. Consul or before a local officer authorized to administer oaths whose authority is proved by a certificate from a U.S. Consul.